ELSEVIER

Biophysical Chemistry 68 (1997) 275–276

Biophysical Chemistry

Author Index to Volume 68

Amodeo, G., see Parisi, M. (68) 255
Auger, M.
Membrane structure and dynamics as viewed by solid-state NMR spectroscopy (68) 233

Bagni, M.A., see Cecchi, G. (68) 1
Bassi, G.S., see Duckett, D.R. (68) 53
Bhuvaneswari, M., see Murthy, M.R.N. (68) 33
Bluml, S., see Ross, B.D. (68) 161
Booy, F.P., see Jones, L.N. (68) 83

Capaldi, R.A., see Wilkens, S. (68) 95
Capurro, C., see Parisi, M. (68) 255
Cecchi, G., Bagni, M.A., Cecchini, E., Colombini, B. and Colomo, F.
Crossbridge viscosity in activated frog muscle fibres (68) 1
Cecchini, E., see Cecchi, G. (68) 1
Chothia, C., see Morea, V. (68) 9
Clegg, R.M., see Duckett, D.R. (68) 53
Colombini, B., see Cecchi, G. (68) 1
Colomo, F., see Cecchi, G. (68) 1
Costello, C.E.
Time, life... and mass spectrometry. New techniques to address biological questions (68) 173
Cowan, R., see Ross, B.D. (68) 161

Danielsen, E., see Ross, B.D. (68) 161
De Meis, L. and Leta, J.
Modern science and the explosion of new knowledge (68) 243
Devaux, P.F., see Dolis, D. (68) 221
Dolis, D., Moreau, C., Zachowski, A. and Devaux, P.F.
Aminophospholipid translocase and proteins involved in transmembrane phospholipid traffic (68) 221
Doran, S., see Mountford, C.E. (68) 127
Dorr, R., see Parisi, M. (68) 255
Duckett, D.R., Murchie, A.I.H., Clegg, R.M., Bassi, G.S., Giraud-Panis, M.-J.E. and Lilley, D.M.J.
Nucleic acid structure and recognition (68) 53

Ellervee, A., see Freiberg, A. (68) 189

Farrow, N., see Ross, B.D. (68) 161
Ford, P., see Parisi, M. (68) 255
Freiberg, A., Ellervee, A., Tars, M., Timpmann, K. and Laisaar, A.
Electron transfer and electronic energy relaxation under high hydrostatic pressure (68) 189
Friederich, E., see Golsteyn, R.M. (68) 73
Funatsu, T., Harada, Y., Higuchi, H., Tokunaga, M., Saito, K., Ishii, Y., Vale, R.D. and Yanagida, T.
Imaging and nano-manipulation of single biomolecules (68) 63

Giraud-Panis, M.-J.E., see Duckett, D.R. (68) 53
Golsteyn, R.M., Louvard, D. and Friederich, E.
The role of actin binding proteins in epithelial morphogenesis: models based upon *Listeria* movement (68) 73
Gopinath, K., see Murthy, M.R.N. (68) 33
Gruetter, R., see Ross, B.D. (68) 161

Harada, Y., see Funatsu, T. (68) 63
Higuchi, H., see Funatsu, T. (68) 63
Hosur, R.V., Radha, P.K., Madan, A. and Padhy, L.C.
Biophysical investigations on the *myb*–DNA system (68) 147

Ishii, Y., see Funatsu, T. (68) 63
Ishimori, K., see Wakasugi, K. (68) 265

Jackson, M., Sowa, M.G. and Mantsch, H.H.
Infrared spectroscopy: a new frontier in medicine (68) 109
Jones, L.N., Simon, M., Watts, N.R., Booy, F.P., Steven, A.C. and Parry, D.A.D.
Intermediate filament structure: hard α-keratin (68) 83

Laisaar, A., see Freiberg, A. (68) 189
Lean, C.L., see Mountford, C.E. (68) 127
Lesk, A.M., see Morea, V. (68) 9
Leta, J., see De Meis, L. (68) 243
Lilley, D.M.J., see Duckett, D.R. (68) 53
Louvard, D., see Golsteyn, R.M. (68) 73

Madan, A., see Hosur, R.V. (68) 147
Maintz, J.B.A., see Viergever, M.A. (68) 207
Mantsch, H.H., see Jackson, M. (68) 109
Morea, V., Tramontano, A., Rustici, M., Chothia, C. and Lesk, A.M.
Antibody structure, prediction and redesign (68) 9
Moreau, C., see Dolis, D. (68) 221
Morishima, I., see Wakasugi, K. (68) 265

Mountford, C.E., Doran, S., Lean, C.L. and Russell, P.
Cancer pathology in the year 2000 (68) 127
Murchie, A.I.H., see Duckett, D.R. (68) 53
Murthy, M.R.N., Bhuvaneswari, M., Subramanya, H.S., Gopinath, K. and Savithri, H.S.
Structure of Sesbania mosaic virus at 3 Å resolution (68) 33

Nielsen, P.E.
Peptide nucleic acid (PNA). From DNA recognition to antisense and DNA structure (68) 103

Ogilvie, I., see Wilkens, S. (68) 95

Padhy, L.C., see Hosur, R.V. (68) 147
Parisi, M., Amodeo, G., Capurro, C., Dorr, R., Ford, P. and Toriano, R.
Biophysical properties of epithelial water channels (68) 255
Parry, D.A.D., see Jones, L.N. (68) 83

Radha, P.K., see Hosur, R.V. (68) 147
Rodgers, A., see Wilkens, S. (68) 95
Ross, B.D., Bluml, S., Cowan, R., Danielsen, E., Farrow, N. and Gruetter, R.
In vivo magnetic resonance spectroscopy of human brain: The biophysical basis of dementia (68) 161
Russell, P., see Mountford, C.E. (68) 127
Rustici, M., see Morea, V. (68) 9

Saito, K., see Funatsu, T. (68) 63
Savithri, H.S., see Murthy, M.R.N. (68) 33
Simon, M., see Jones, L.N. (68) 83
Sowa, M.G., see Jackson, M. (68) 109
Steven, A.C., see Jones, L.N. (68) 83
Stokking, R., see Viergever, M.A. (68) 207
Subramanya, H.S., see Murthy, M.R.N. (68) 33

Tars, M., see Freiberg, A. (68) 189
Thomas Jr, G.J., see Tuma, R. (68) 17
Timpmann, K., see Freiberg, A. (68) 189
Tokunaga, M., see Funatsu, T. (68) 63
Toriano, R., see Parisi, M. (68) 255
Tramontano, A., see Morea, V. (68) 9
Tsui, Z.C., see Yang, F.Y. (68) 137
Tu, Y.P., see Yang, F.Y. (68) 137
Tuma, R. and Thomas Jr, G.J.
Mechanisms of virus assembly probed by Raman spectroscopy: the icosahedral bacteriophage P22 (68) 17

Vale, R.D., see Funatsu, T. (68) 63
Van Netten, S.M.
Hair cell mechano–transduction: Its influence on the gross mechanical characteristics of a hair cell sense organ (68) 43
Viergever, M.A., Maintz, J.B.A. and Stokking, R.
Integration of functional and anatomical brain images (68) 207

Wakasugi, K., Ishimori, K. and Morishima, I.
'Module'-substituted globins: Artificial exon shuffling among myoglobin, hemoglobin α- and β-subunits (68) 265
Wang, L.H., see Yang, F.Y. (68) 137
Watts, N.R., see Jones, L.N. (68) 83
Wilkens, S., Rodgers, A., Ogilvie, I. and Capaldi, R.A.
Structure and arrangement of the δ subunit in the *E. coli* ATP synthase (ECF_1F_0) (68) 95

Yanagida, T., see Funatsu, T. (68) 63
Yang, F.Y., Wang, L.H., Yang, X.Y., Tsui, Z.C. and Tu, Y.P.
The role of ganglioside GM_3 in the modulation of conformation and activity of sarcoplasmic reticulum Ca^{2+}-ATPase (68) 137
Yang, X.Y., see Yang, F.Y. (68) 137

Zachowski, A., see Dolis, D. (68) 221

ELSEVIER

Biophysical Chemistry 68 (1997) 277–281

Biophysical Chemistry

Subject Index to Volume 68

ActA
Actin; Cell motility; *Listeria*; Polymerization; Zyxin (Golsteyn, R.M. (68) 73)

Actin
ActA; Cell motility; *Listeria*; Polymerization; Zyxin (Golsteyn, R.M. (68) 73)

ADH
Aquaporins; Progesterone and water transport; Water channels; Epithelial barriers permeability (Parisi, M. (68) 255)

Alzheimer's disease
Nuclear magnetic resonance spectroscopy; Neuronal markers; Neurochemistry disorders; Neurotransmitters (Ross, B.D. (68) 161)

Aminophospholipid translocase
Phospholipid asymmetry; Flippase; P-glycoprotein; Scramblase (Dolis, D. (68) 221)

Antisense
PNA; Peptide nucleic acid; Nucleic acid hybridization (Nielsen, P.E. (68) 103)

Aquaporins
Progesterone and water transport; ADH; Water channels; Epithelial barriers permeability (Parisi, M. (68) 255)

Assembly
Virus structure; Protein dynamics; Hydrogen-isotope exchange; Raman spectroscopy; Bacteriophage P22 (Tuma, R. (68) 17)

ATPase
E *coli*; NMR spectroscopy; Subunits (Wilkens, S. (68) 95)

Single-molecule imaging; Motor protein; Fluorescence microscopy (Funatsu, T. (68) 63)

Bacteriophage P22
Virus structure; Assembly; Protein dynamics; Hydrogen-isotope exchange; Raman spectroscopy (Tuma, R. (68) 17)

Bilayer
Solid-state; NMR; Protein; Gramicidin; Cardiotoxin (Auger, M. (68) 233)

Biophysical studies
myb–DNA system; R123 domain (Hosur, R.V. (68) 147)

Brain imaging
Multimodality registration; Multimodality visualization; Functional–anatomical integration (Viergever, M.A. (68) 207)

Canonical structures
Immunoglobulin structure; Hypervariable loops; Structure prediction; Protein design; Hair-pin loops (Morea, V. (68) 9)

Cardiotoxin
Solid-state; NMR; Bilayer; Protein; Gramicidin (Auger, M. (68) 233)

Cell motility
ActA; Actin; *Listeria*; Polymerization; Zyxin (Golsteyn, R.M. (68) 73)

Cervical cancer
Chemical shift imaging; Magnetic resonance spectroscopy; Thyroid cancer; Pathology (Mountford, C.E. (68) 127)

Chemical shift imaging
Magnetic resonance spectroscopy; Cervical cancer; Thyroid cancer; Pathology (Mountford, C.E. (68) 127)

Conformation
Ganglioside GM_3; Sarcoplasmic reticulum Ca^{2+}-ATPase; Proteoliposomes (Yang, F.Y. (68) 137)

Crossbridges
Muscle fibre; Myofilaments; Skeletal muscle; Stretches; Viscosity (Cecchi, G. (68) 1)

Disassembly
Sesbania mosaic virus; Protein structure; X-Ray diffraction (Murthy, M.R.N. (68) 33)

Disulfide bonds
Intermediate filament; Wool; α-Keratin; Mass measurements; X-ray diffraction (Jones, L.N. (68) 83)

E *coli*
ATPase; NMR spectroscopy; Subunits (Wilkens, S. (68) 95)

Education and development
Modern science; Science education; Information overload; Super-specialization (De Meis, L. (68) 243)

Electron transfer
High pressure; Energy relaxation; Picosecond fluorescence; Pigment–protein complexes; Photosynthesis (Freiberg, A. (68) 189)

Electrospray ionization
Mass spectrometry; Matrix-assisted laser desorption/ionization; Glycoproteins; Glycolipids; Oligosaccharides; Muramyl peptides; Proteins (Costello, C.E. (68) 173)

Energy relaxation
High pressure; Electron transfer; Picosecond fluorescence; Pigment–protein complexes; Photosynthesis (Freiberg, A. (68) 189)

Epithelial barriers permeability
Aquaporins; Progesterone and water transport; ADH; Water channels (Parisi, M. (68) 255)

Exon shuffling
Heme proteins; Molecular evolution; Protein engineering (Wakasugi, K. (68) 265)

Flippase
Phospholipid asymmetry; Aminophospholipid translocase; P-glycoprotein; Scramblase (Dolis, D. (68) 221)

Fluorescence microscopy
Single-molecule imaging; Motor protein; ATPase (Funatsu, T. (68) 63)

Functional–anatomical integration
Brain imaging; Multimodality registration; Multimodality visualization (Viergever, M.A. (68) 207)

Ganglioside GM_3
Sarcoplasmic reticulum Ca^{2+}-ATPase; Proteoliposomes; Conformation (Yang, F.Y. (68) 137)

Glycolipids
Mass spectrometry; Electrospray ionization; Matrix-assisted laser desorption/ionization; Glycoproteins; Oligosaccharides; Muramyl peptides; Proteins (Costello, C.E. (68) 173)

Glycoproteins
Mass spectrometry; Electrospray ionization; Matrix-assisted laser desorption/ionization; Glycolipids; Oligosaccharides; Muramyl peptides; Proteins (Costello, C.E. (68) 173)

Gramicidin
Solid-state; NMR; Bilayer; Protein; Cardiotoxin (Auger, M. (68) 233)

Hair bundle micromechanics
Hair cells; Mechano–electrical transduction; Tectorial structure mechanics; Mechanical tuning; Lateral line (Van Netten, S.M. (68) 43)

Hair cells
Mechano–electrical transduction; Hair bundle micromechanics; Tectorial structure mechanics; Mechanical tuning; Lateral line (Van Netten, S.M. (68) 43)

Hair-pin loops
Immunoglobulin structure; Hypervariable loops; Canonical structures; Structure prediction; Protein design (Morea, V. (68) 9)

Heme proteins
Exon shuffling; Molecular evolution; Protein engineering (Wakasugi, K. (68) 265)

High pressure
Electron transfer; Energy relaxation; Picosecond fluorescence; Pigment–protein complexes; Photosynthesis (Freiberg, A. (68) 189)

Hydrogen-isotope exchange
Virus structure; Assembly; Protein dynamics; Raman spectroscopy; Bacteriophage P22 (Tuma, R. (68) 17)

Hypervariable loops
Immunoglobulin structure; Canonical structures; Structure prediction; Protein design; Hair-pin loops (Morea, V. (68) 9)

Immunoglobulin structure
Hypervariable loops; Canonical structures; Structure prediction; Protein design; Hair-pin loops (Morea, V. (68) 9)

Information overload
Modern science; Science education; Super-specialization; Education and development (De Meis, L. (68) 243)

Infrared imaging
Molecular medicine; Infrared spectroscopy; Medical diagnosis (Jackson, M. (68) 109)

Infrared spectroscopy
Molecular medicine; Infrared imaging; Medical diagnosis (Jackson, M. (68) 109)

Intermediate filament
Wool; α-Keratin; Disulfide bonds; Mass measurements; X-ray diffraction (Jones, L.N. (68) 83)

α-Keratin
Intermediate filament; Wool; Disulfide bonds; Mass measurements; X-ray diffraction (Jones, L.N. (68) 83)

Lateral line
Hair cells; Mechano–electrical transduction; Hair bundle micromechanics; Tectorial structure mechanics; Mechanical tuning (Van Netten, S.M. (68) 43)

Listeria
ActA; Actin; Cell motility; Polymerization; Zyxin (Golsteyn, R.M. (68) 73)

Magnetic resonance spectroscopy
Chemical shift imaging; Cervical cancer; Thyroid cancer; Pathology (Mountford, C.E. (68) 127)

Mass measurements
Intermediate filament; Wool; α-Keratin; Disulfide bonds; X-ray diffraction (Jones, L.N. (68) 83)

Mass spectrometry
Electrospray ionization; Matrix-assisted laser desorption/ionization; Glycoproteins; Glycolipids; Oligosaccharides; Muramyl peptides; Proteins (Costello, C.E. (68) 173)

Matrix-assisted laser desorption/ionization
Mass spectrometry; Electrospray ionization; Glycoproteins; Glycolipids; Oligosaccharides; Muramyl peptides; Proteins (Costello, C.E. (68) 173)

Mechanical tuning
Hair cells; Mechano–electrical transduction; Hair bundle micromechanics; Tectorial structure mechanics; Lateral line (Van Netten, S.M. (68) 43)

Mechano–electrical transduction
Hair cells; Hair bundle micromechanics; Tectorial structure mechanics; Mechanical tuning; Lateral line (Van Netten, S.M. (68) 43)

Medical diagnosis
Molecular medicine; Infrared spectroscopy; Infrared imaging (Jackson, M. (68) 109)

Modern science
Science education; Information overload; Super-specialization; Education and development (De Meis, L. (68) 243)

Molecular evolution
Heme proteins; Exon shuffling; Protein engineering (Wakasugi, K. (68) 265)

Molecular medicine
Infrared spectroscopy; Infrared imaging; Medical diagnosis (Jackson, M. (68) 109)

Motor protein
Single-molecule imaging; ATPase; Fluorescence microscopy (Funatsu, T. (68) 63)

Multimodality registration
Brain imaging; Multimodality visualization; Functional–anatomical integration (Viergever, M.A. (68) 207)

Multimodality visualization
Brain imaging; Multimodality registration; Functional–anatomical integration (Viergever, M.A. (68) 207)

Muramyl peptides
Mass spectrometry; Electrospray ionization; Matrix-assisted laser desorption/ionization; Glycoproteins; Glycolipids; Oligosaccharides; Proteins (Costello, C.E. (68) 173)

Muscle fibre
Crossbridges; Myofilaments; Skeletal muscle; Stretches; Viscosity (Cecchi, G. (68) 1)

***myb*–DNA system**
R123 domain; Biophysical studies (Hosur, R.V. (68) 147)

Myofilaments
Crossbridges; Muscle fibre; Skeletal muscle; Stretches; Viscosity (Cecchi, G. (68) 1)

Neurochemistry disorders
Nuclear magnetic resonance spectroscopy; Neuronal markers; Alzheimes disease; Neurotransmitters (Ross, B.D. (68) 161)

Neuronal markers
Nuclear magnetic resonance spectroscopy; Neurochemistry disorders; Alzheimes disease; Neurotransmitters (Ross, B.D. (68) 161)

Neurotransmitters
Nuclear magnetic resonance spectroscopy; Neuronal markers; Neurochemistry disorders; Alzheimes disease (Ross, B.D. (68) 161)

NMR
Solid-state; Bilayer; Protein; Gramicidin; Cardiotoxin (Auger, M. (68) 233)

NMR spectroscopy
E *coli*; ATPase; Subunits (Wilkens, S. (68) 95)

Nuclear magnetic resonance spectroscopy
Neuronal markers; Neurochemistry disorders; Alzheimes disease; Neurotransmitters (Ross, B.D. (68) 161)

Nucleic acid hybridization
PNA; Peptide nucleic acid; Antisense (Nielsen, P.E. (68) 103)

Oligosaccharides
Mass spectrometry; Electrospray ionization; Matrix-assisted laser desorption/ionization; Glycoproteins; Glycolipids; Muramyl peptides; Proteins (Costello, C.E. (68) 173)

Pathology
Chemical shift imaging; Magnetic resonance spectroscopy; Cervical cancer; Thyroid cancer (Mountford, C.E. (68) 127)

Peptide nucleic acid
PNA; Antisense; Nucleic acid hybridization (Nielsen, P.E. (68) 103)

P-glycoprotein
Phospholipid asymmetry; Aminophospholipid translocase; Flippase; Scramblase (Dolis, D. (68) 221)

Phospholipid asymmetry
Aminophospholipid translocase; Flippase; P-glycoprotein; Scramblase (Dolis, D. (68) 221)

Photosynthesis
High pressure; Electron transfer; Energy relaxation; Picosecond fluorescence; Pigment–protein complexes (Freiberg, A. (68) 189)

Picosecond fluorescence
High pressure; Electron transfer; Energy relaxation; Pigment–protein complexes; Photosynthesis (Freiberg, A. (68) 189)

Pigment–protein complexes
High pressure; Electron transfer; Energy relaxation; Picosecond fluorescence; Photosynthesis (Freiberg, A. (68) 189)

PNA
Peptide nucleic acid; Antisense; Nucleic acid hybridization (Nielsen, P.E. (68) 103)

Polymerization
ActA; Actin; Cell motility; *Listeria*; Zyxin (Golsteyn, R.M. (68) 73)

Progesterone and water transport
Aquaporins; ADH; Water channels; Epithelial barriers permeability (Parisi, M. (68) 255)

Protein
Solid-state; NMR; Bilayer; Gramicidin; Cardiotoxin (Auger, M. (68) 233)

Protein design
Immunoglobulin structure; Hypervariable loops; Canonical structures; Structure prediction; Hair-pin loops (Morea, V. (68) 9)

Protein dynamics
Virus structure; Assembly; Hydrogen-isotope exchange; Raman spectroscopy; Bacteriophage P22 (Tuma, R. (68) 17)

Protein engineering
Heme proteins; Exon shuffling; Molecular evolution (Wakasugi, K. (68) 265)

Proteins
Mass spectrometry; Electrospray ionization; Matrix-assisted laser desorption/ionization; Glycoproteins; Glycolipids; Oligosaccharides; Muramyl peptides (Costello, C.E. (68) 173)

Protein structure
Sesbania mosaic virus; X-Ray diffraction; Disassembly (Murthy, M.R.N. (68) 33)

Proteoliposomes
Ganglioside GM_3; Sarcoplasmic reticulum Ca^{2+}-ATPase; Conformation (Yang, F.Y. (68) 137)

Raman spectroscopy
Virus structure; Assembly; Protein dynamics; Hydrogen-isotope exchange; Bacteriophage P22 (Tuma, R. (68) 17)

R123 domain
myb–DNA system; Biophysical studies (Hosur, R.V. (68) 147)

Sarcoplasmic reticulum Ca^{2+}-ATPase
Ganglioside GM_3; Proteoliposomes; Conformation (Yang, F.Y. (68) 137)

Science education
Modern science; Information overload; Super-specialization; Education and development (De Meis, L. (68) 243)

Scramblase
Phospholipid asymmetry; Aminophospholipid translocase; Flippase; P-glycoprotein (Dolis, D. (68) 221)

Sesbania mosaic virus
Protein structure; X-Ray diffraction; Disassembly (Murthy, M.R.N. (68) 33)

Single-molecule imaging
Motor protein; ATPase; Fluorescence microscopy (Funatsu, T. (68) 63)

Skeletal muscle
Crossbridges; Muscle fibre; Myofilaments; Stretches; Viscosity (Cecchi, G. (68) 1)

Solid-state
NMR; Bilayer; Protein; Gramicidin; Cardiotoxin (Auger, M. (68) 233)

Stretches
Crossbridges; Muscle fibre; Myofilaments; Skeletal muscle; Viscosity (Cecchi, G. (68) 1)

Structure prediction
Immunoglobulin structure; Hypervariable loops; Canonical structures; Protein design; Hair-pin loops (Morea, V. (68) 9)

Subunits
E *coli*; ATPase; NMR spectroscopy (Wilkens, S. (68) 95)

Super-specialization
Modern science; Science education; Information overload; Education and development (De Meis, L. (68) 243)

Tectorial structure mechanics
Hair cells; Mechano–electrical transduction; Hair bundle micromechanics; Mechanical tuning; Lateral line (Van Netten, S.M. (68) 43)

Thyroid cancer
Chemical shift imaging; Magnetic resonance spectroscopy; Cervical cancer; Pathology (Mountford, C.E. (68) 127)

Virus structure
Assembly; Protein dynamics; Hydrogen-isotope exchange; Raman spectroscopy; Bacteriophage P22 (Tuma, R. (68) 17)

Viscosity
Crossbridges; Muscle fibre; Myofilaments; Skeletal muscle; Stretches (Cecchi, G. (68) 1)

Water channels
Aquaporins; Progesterone and water transport; ADH; Epithelial barriers permeability (Parisi, M. (68) 255)

Wool
Intermediate filament; α-Keratin; Disulfide bonds; Mass measurements; X-ray diffraction (Jones, L.N. (68) 83)

X-Ray diffraction
Sesbania mosaic virus; Protein structure; Disassembly (Murthy, M.R.N. (68) 33)

Intermediate filament; Wool; α-Keratin; Disulfide bonds; Mass measurements (Jones, L.N. (68) 83)

Zyxin
ActA; Actin; Cell motility; *Listeria*; Polymerization (Golsteyn, R.M. (68) 73)